

DATE: Thursday, July 24, 2003 Printable Copy Create Case

Set Name	Query	Hit Count	Set Name
side by side			result set
DB=US	SPT; PLUR=YES; OP=OR		
<u>L10</u>	l6 and L9	119	<u>L10</u>
<u>L9</u>	non-glycosylated and L8	1006	<u>L9</u>
<u>L8</u>	protease deficient and 16	30313	<u>L8</u>
<u>L7</u>	stable solution and L6	471777	<u>L7</u>
<u>L6</u>	storage and L5	3272	<u>L6</u>
<u>L5</u>	L3 and stability	6708	<u>L5</u>
<u>L4</u>	in vivo activity and L3	2927400	<u>L4</u>
<u>L3</u>	yeast and L2	11983	<u>L3</u>
<u>L2</u>	extended shelf-life and L1	538751	<u>L2</u>
<u>L1</u>	fusion albumin protein	189881	<u>L1</u>

WEST

Generate Collection

Print

Search Results - Record(s) 1 through 10 of 119 returned.

☐ 1. Document ID: US 6593112 B1

L10: Entry 1 of 119

File: USPT

Jul 15, 2003

US-PAT-NO: 6593112

DOCUMENT-IDENTIFIER: US 6593112 B1

TITLE: Polynucleotides encoding fibroblast growth factor 15

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Greene; John M. Gaithersburg MD Laytonsville Rosen; Craig A. MD Alderson; Ralph Gaithersburg MD Melder; Robert J. Gaithersburg MD Duan; D. Roxanne Bethesda MD

US-CL-CURRENT: 435/69.4; 435/243, 435/320.1, 435/325, 435/69.7, 514/44, 530/300, 530/399, 536/23.1, 536/23.5

Full Title Citation Front Review Classification Cate Reference Sequence: Attachments Claims: Field Franches Unage

L10: Entry 2 of 119

File: USPT

Jul 15, 2003

US-PAT-NO: 6592865

DOCUMENT-IDENTIFIER: US 6592865 B2

TITLE: Methods and compositions for modulating ACE-2 activity

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Parry; Tom J. Walkersville MD Sekut; Les Ijamsville MD

US-CL-CURRENT: 514/15, 514/2

Full Title Citation Front Review Clarencation Date Reference Sequences Attachments : Field Draw Decid Image

☐ 3. Document ID: US 6566325 B2

L10: Entry 3 of 119

File: USPT

May 20, 2003

US-PAT-NO: 6566325

DOCUMENT-IDENTIFIER: US 6566325 B2

TITLE: 49 human secreted proteins

DATE-ISSUED: May 20, 2003

INVENTOR - INFORMATION:

CITY	STATE	ZIP	CODE	COUNTRY
Germantown	MD			
Olney	MD			
Gaithersburg	MD			
Gaithersburg	MD			
Laytonsville	MD			
Rockville	MD			
Centreville	VA			
Washington	DC			
Potomac	MD			
Gaithersburg	MD			
Silver Spring	MD			
Bethesda	MD			
	Germantown Olney Gaithersburg Gaithersburg Laytonsville Rockville Centreville Washington Potomac Gaithersburg Silver Spring	Germantown MD Olney MD Gaithersburg MD Gaithersburg MD Laytonsville MD Rockville MD Centreville VA Washington DC Potomac MD Gaithersburg MD Silver Spring MD	Germantown MD Olney MD Gaithersburg MD Gaithersburg MD Laytonsville MD Rockville MD Centreville VA Washington DC Potomac MD Gaithersburg MD Silver Spring MD	Germantown MD Olney MD Gaithersburg MD Gaithersburg MD Laytonsville MD Rockville MD Centreville VA Washington DC Potomac MD Gaithersburg MD Silver Spring MD

US-CL-CURRENT: 514/2; 530/300, 530/350

Feit	Title	Citation From	nt Review	Classification	Crate	Reference	Sequences	Attachmente	1990 Draw Desc 1 Image
ž (4.	Documen	nt ID: U	JS 656251	79 B	1			

File: USPT

May 13, 2003

US-PAT-NO: 6562579

DOCUMENT-IDENTIFIER: US 6562579 B1

TITLE: Diagnostic methods using antibodies to Neutrokine-alpha

DATE-ISSUED: May 13, 2003

L10: Entry 4 of 119

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY
Yu; Guo-Liang Berkeley CA

Ebner; Reinhard Gaithersburg MD
Ni; Jian Rockville MD
Rosen; Craig A. Laytonsville MD

US-CL-CURRENT: 435/7.1; 435/7.2, 530/350, 530/387.9, 530/388.1, 530/388.23, 530/389.1, 530/391.3

L10: Entry 5 of 119 File: USPT May 6, 2003

US-PAT-NO: 6559294

DOCUMENT-IDENTIFIER: US 6559294 B1

TITLE: Chlamydia pneumoniae polynucleotides and uses thereof

DATE-ISSUED: May 6, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Griffais; Remy Momtrouge FR Hoiseth; Susan K. Fairport NY Zagursky; Robert John Victor NY Metcalf; Benjamin J. Rochester Peek; Joel A. Pittsford NY Sankaran; Banumathi Penfield NY Fletcher; Leah Diane Geneseo NY

US-CL-CURRENT: 536/23.1; 435/320.1, 435/69.1, 435/70.1, 536/24.1

Full little Citation Front Review Classification Date Reference Dequences Attachments

Fimble | Errann Dezig | Irriade

L10: Entry 6 of 119

File: USPT

Apr 29, 2003

US-PAT-NO: 6555660

DOCUMENT-IDENTIFIER: US 6555660 B2

TITLE: G-CSF conjugates

DATE-ISSUED: April 29, 2003

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Nissen; Torben Lauesgaard Frederiksberg DK Andersen; Kim Vilbour Broenshoej DK Hansen; Christian Karsten Vedbaek DK Mikkelsen; Jan Moller Gentofte DK Schambye; Hans Thalsgaard Frederiksberg DK

US-CL-CURRENT: 530/397; 435/69.1, 435/69.4, 435/70.1, 435/71.1, 530/350, 530/351, 530/395, 530/399

Full Title | Citation | Front | Review | Classification | Cate | Peterence | Sequences | All achinents

Find) | Draw Desc (Image

☐ 7. Document ID: US 6551820 B1

L10: Entry 7 of 119

File: USPT

Apr 22, 2003

US-PAT-NO: 6551820

DOCUMENT-IDENTIFIER: US 6551820 B1

TITLE: Expression of immunogenic hepatitis B surface antigens in transgenic plants

DATE-ISSUED: April 22, 2003

Record List Display

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Mason; Hugh S. Ithaca NY
Thanavala; Yasmin Williamsville NY
Arntzen; Charles Joel Ithaca NY
Richter; Elizabeth Ithaca NY

US-CL-CURRENT: 435/320.1; 435/69.3, 435/71.2, 536/23.4

Foll Title | Caston Front Review Clarimitation | Date | Reference | Sequences - Attachitect | 1980 | Casto Deco | Impay

■ 8. Document ID: US 6544761 B2

L10: Entry 8 of 119 File: USPT Apr 8, 2003

US-PAT-NO: 6544761

DOCUMENT-IDENTIFIER: US 6544761 B2

TITLE: Human tissue inhibitor of metalloproteinase-4

DATE-ISSUED: April 8, 2003

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Greene; John M. Gaithersburg MD Rosen; Craiq A. Laytonsville MD

US-CL-CURRENT: 435/69.2; 514/12, 530/350, 536/23.5

Full | Title | Citation | Front | Review | Classification | Brate | Reference | Sequences | Attachments | Finds | Draw Gess | Image

☐ 9. Document ID: US 6544505 B2

L10: Entry 9 of 119 File: USPT Apr 8, 2003

US-PAT-NO: 6544505

DOCUMENT-IDENTIFIER: US 6544505 B2

TITLE: Interferon-epsilon

DATE-ISSUED: April 8, 2003

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Conklin; Darrell C. Seattle WA
Grant; Francis J. Seattle WA
Rixon; Mark W. Issaquah WA
Kindsvogel; Wayne Seattle WA

US-CL-CURRENT: 424/85.4; 424/185.1, 435/69.51, 530/350, 530/351

☐ 10. Document ID: US 6541623 B1

L10: Entry 10 of 119

File: USPT

Apr 1, 2003

US-PAT-NO: 6541623

DOCUMENT-IDENTIFIER: US 6541623 B1

TITLE: Interleukin--1 receptor antagonist and uses thereof

DATE-ISSUED: April 1, 2003

INVENTOR - INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Ford; John

San Mateo

CA CA

Ho; Alice Suk-Yue Pace; Ann Union City Scotts Valley

CA

US-CL-CURRENT: 536/24.3; 435/287.2, 435/288.3, 435/288.4, 536/23.1

	Generate Collection	Print	
Terms		Documents	

Display Format: CIT | Change Format

<u>Previous Page</u> <u>Next Page</u>

WEST

Generate Collection

Print

Search Results - Record(s) 21 through 30 of 119 returned.

☐ 21. Document ID: US 6495128 B1

L10: Entry 21 of 119

File: USPT

Dec 17, 2002

US-PAT-NO: 6495128

DOCUMENT-IDENTIFIER: US 6495128 B1

TITLE: Human chemokine .beta.-7 deletion and substitution proteins

DATE-ISSUED: December 17, 2002

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Salcedo; Theodora W. Gaithersburg MD Patel; Vikram P. Germantown MD

Nibbs; Robert John Benjamin Glasgow GB Graham; Gerard John Glasgow GB

US-CL-CURRENT: <u>424/85.1</u>; <u>435/254.1</u>1, <u>435/254.3</u>, <u>435/320.1</u>, <u>435/325</u>, <u>435/471</u>, <u>435/69.5</u>, <u>435/69.7</u>, <u>435/71.1</u>, <u>435/71.2</u>, <u>530/324</u>, <u>536/23.5</u>

Foll Title Chatron Front Review Classification Date Reference Suguences Attachments

Find train test Image

L10: Entry 22 of 119

File: USPT

Nov 19, 2002

US-PAT-NO: 6482612

DOCUMENT-IDENTIFIER: US 6482612 B1

TITLE: Adipocyte-specific protein homologs

DATE-ISSUED: November 19, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Sheppard; Paul O. Redmond WA Humes; Jacqueline M. Seattle WA

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 435/6, 435/7.2, 435/7.21, 436/501, 514/2, 530/350, 536/23.5

Full Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Finds | Francisco | Interest

☐ 23. Document ID: US 6476209 B1

L10: Entry 23 of 119

File: USPT

Nov 5, 2002

US-PAT-NO: 6476209

DOCUMENT-IDENTIFIER: US 6476209 B1

TITLE: Polynucleotides, materials incorporating them, and methods for using them

DATE-ISSUED: November 5, 2002

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Glenn; Matthew Auckland NZ Lubbers; Mark W. Palmerston North NZDekker; James Palmerston North NZ

US-CL-CURRENT: 536/23.1; 435/6, 435/91.1, 530/200, 536/22.1

Full | Dile | Citation | Front | Resigno | Classification | Cate | Reference | Semience | Attachments

Finit Draw Deck | Image

☐ 24. Document ID: US 6476195 B1

L10: Entry 24 of 119

File: USPT Nov 5, 2002

US-PAT-NO: 6476195

DOCUMENT-IDENTIFIER: US 6476195 B1

TITLE: Secreted protein HNFGF20

DATE-ISSUED: November 5, 2002

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Komatsoulis; George Silver Spring MD Rosen; Craig A. Laytonsville MD Ruben; Steven M. Olney MD Duan; Roxanne D. Bethesda MD Moore; Paul A. Germantown MD Shi; Yanggu Gaithersburg MD LaFleur; David W. Washington DC Wei; Ying-Fei Berkeley CA Ni; Jian Rockville MD Florence; Kimberly A. Rockville MD Young; Paul Gaithersburg MD Brewer; Laurie A. St. Paul MN Soppet; Daniel R. Centreville VA Endress; Gregory A. Potomac MD Ebner; Reinhard Gaithersburg MD Olsen; Henrik Gaithersburg MD Mucenski; Michael Cincinnati ОН

US-CL-CURRENT: 530/350; 435/6, 435/7.1, 536/23.1

Full Title Citation Front Review Clarifocation Date Reference Dequence: Attachment.

FindC | Draw Desc | Invage

☐ 25. Document ID: US 6475753 B1

L10: Entry 25 of 119 File: USPT Nov 5, 2002

US-PAT-NO: 6475753

DOCUMENT-IDENTIFIER: US 6475753 B1

TITLE: 94 Human Secreted Proteins

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Ruben; Steven M.	Olney	MD			
Ni; Jian	Rockville	MD			
Rosen; Craig A.	Laytonsville	MD			
Wei; Ying-Fei	Berkeley	CA			
Young; Paul	Gaithersburg	MD			
Florence; Kimberly	Rockville	MD			
Soppet; Daniel R.	Centreville	VA			
Brewer; Laurie A.	St. Paul	MN			
Endress; Gregory A.	Potomac	MD			
Carter; Kenneth C.	Potomac	MD			
Mucenski; Michael	Cincinnati	OH			
Ebner; Reinhard	Gaithersburg	MD			
Lafleur; David W.	Washington	DC			
Olsen; Henrik	Gaithersburg	MD			
Shi; Yanggu	Gaithersburg	MD			
Moore; Paul A.	Germantown	MD			
Komatsoulis; George	Silver Spring	MD			

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 435/325, 435/471, 435/69.4, 435/71.1, 530/350, 536/23.5

☐ 26. Document ID: US 6472512 B1

L10: Entry 26 of 119

File: USPT

Oct 29, 2002

US-PAT-NO: 6472512

DOCUMENT-IDENTIFIER: US 6472512 B1

TITLE: Keratinocyte derived interferon

DATE-ISSUED: October 29, 2002

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

LaFleur; David W. Washington DC Moore; Paul A. Germantown MD Ruben; Steven M. Olney MD

US-CL-CURRENT: 530/388.2; 435/331, 435/335, 435/7.92, 530/388.15, 530/389.2, 530/391.3

Full Title Chahon Front Review Classin, abon Cate Reference Serptemes Attachiberts

Find | Industrial Control

L10: Entry 27 of 119

File: USPT

Oct 22, 2002

US-PAT-NO: 6468770

DOCUMENT-IDENTIFIER: US 6468770 B1

TITLE: Nucleic acids and proteins of D. melanogaster insulin-like genes and uses

thereof

DATE-ISSUED: October 22, 2002

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY
Keyes; Linda Nolan San Carlos CA
Doberstein; Stephen Kohl San Francisco CA

Buchman; Andrew Roy Berkeley CA Reddy; Bindu Priya San Francisco CA Ruddy; David Andrew San Francisco CA

US-CL-CURRENT: 435/69.4; 435/320.1, 435/325, 435/455, 435/471, 435/69.1, 536/23.1, 536/23.5, 536/23.51

Full | Title | Citation | Front | Review | Classification | Cate | Reference | Sequences | Attachments

Finiti | Draw Desc | Image

☐ 28. Document ID: US 6465181 B2

L10: Entry 28 of 119

File: USPT

Oct 15, 2002

US-PAT-NO: 6465181

DOCUMENT-IDENTIFIER: US 6465181 B2

TITLE: Reagents and methods useful for detecting diseases of the prostate

DATE-ISSUED: October 15, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Grayslake Billing-Medel; Patricia A. ΤL Cohen; Maurice Highland Park ΙL Colpitts; Tracey L. Round Lake ILGordon; Julian Lake Bluff ILGranados; Edward N. Vernon Hills ĮL Russell; John C. Pleasant Prairie WI Stroupe; Stephen D. Libertyville IL

US-CL-CURRENT: 435/6; 435/91.2, 435/91.5, 536/22.1, 536/23.5, 536/24.31, 536/24.33

Full Title Citation Front Review Classification Date Reference Sequences Attachitients

Finit Praise Peac Image

29. Document ID: US 6458574 B1

L10: Entry 29 of 119

File: USPT

Oct 1, 2002

US-PAT-NO: 6458574

DOCUMENT-IDENTIFIER: US 6458574 B1

TITLE: Treatment of a .alpha.-galactosidase a deficiency

DATE-ISSUED: October 1, 2002

INVENTOR - INFORMATION:

CITY	STATE	ZIP CODE	COUNTRY
Wellesley	MA		
Winthrop	MA		
Bedford	MA		
Arlington	MA		
Natick	MA		
Framingham	MA		
Natick	MA		
	Wellesley Winthrop Bedford Arlington Natick Framingham	Wellesley MA Winthrop MA Bedford MA Arlington MA Natick MA Framingham MA	Wellesley MA Winthrop MA Bedford MA Arlington MA Natick MA Framingham MA

US-CL-CURRENT: 435/208; 424/94.1, 424/94.61, 435/183, 435/193, 536/23.1, 536/23.2, 536/23.4

	and the contraction of the contr		
Full Title Citation Front	Remem Classification Date	Reference Sequences	Attachmente

FindC | Drain Desc | Image

L10: Entry 30 of 119

File: USPT

Oct 1, 2002

US-PAT-NO: 6458527

DOCUMENT-IDENTIFIER: US 6458527 B1

** See image for Certificate of Correction **

TITLE: HIV immunoassays using gag polypeptides

DATE-ISSUED: October 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Luciw; Paul A.	Davis	CA		
Dina; Dino	San Francisco	CA		
Steimer; Kathelyn	El Cerrito	CA		
Pescador; Ray Sanchez	Oakland	CA		
George-Nascimento; Carlos	Danville	CA		
Parkes; Deborah	Oakland	CA		
Hallewell; Rob	San Francisco	CA		
Barr; Philip J.	Orinda	CA		
Truett; Martha	Oakland	CA		

US-CL-CURRENT: $\frac{435}{5}$; $\frac{435}{69.3}$, $\frac{435}{69.7}$, $\frac{435}{69.8}$, $\frac{435}{69.9}$, $\frac{435}{7.92}$, $\frac{435}{7.95}$, $\frac{436}{518}$, $\frac{436}{530}$, $\frac{530}{324}$, $\frac{530}{325}$, $\frac{530}{326}$, $\frac{530}{326}$, $\frac{530}{326}$, $\frac{530}{326}$

Full | Title | Citation | Front | Reserve | Classification | Date | Reference | Cognerice | Attachments

Fidt | from Dark | Immere

Generate	Collection	 Print	
	0000		

Terms	Documents
l6 and L9	119

Display Format: CIT Change Format

Previous Page Next Page

WEST

Generate Collection

Print

Search Results - Record(s) 1 through 10 of 6708 returned.

☐ 1. Document ID: US 6596928 B1

L5: Entry 1 of 6708

File: USPT

Jul 22, 2003

US-PAT-NO: 6596928

DOCUMENT-IDENTIFIER: US 6596928 B1

TITLE: Plants synthesizing a modified starch, the generation of the plants, their

use, and the modified starch

DATE-ISSUED: July 22, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Landschutze; Volker Berlin DE

US-CL-CURRENT: 800/284; 435/101, 435/320.1, 435/419, 435/468, 435/69.1, 536/23.6, 536/24.5, 800/278, 800/286, 800/317.2, 800/320.1, 800/320.2, 800/320.3

Full Title Citation: Front | Remeint | Classification | Date | Reference | Sequences | Attachments

Find([rain (less | Image

L5: Entry 2 of 6708

File: USPT

Jul 22, 2003

US-PAT-NO: 6596849

DOCUMENT-IDENTIFIER: US 6596849 B1

TITLE: Monoclonal-antibody for analysis and clearance of polyethylene glycol and

polyethylene glycol-modified molecules

DATE-ISSUED: July 22, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Roffler; Steve Taipei TW
Cheng; Tian-Lu Chang Hua TW
Wu; Pin-Yi Taipei TW

US-CL-CURRENT: 530/387.1; 435/7.1, 435/7.2, 435/7.71, 435/7.9, 435/7.92, 530/388.1, 530/388.2, 530/388.85

Full Title Citation Front Review Classification Date Retorance Sequences Attachinests

Finds a ferancibers timeser

☐ 3. Document ID: US 6596702 B2

L5: Entry 3 of 6708

File: USPT

Jul 22, 2003

US-PAT-NO: 6596702

DOCUMENT-IDENTIFIER: US 6596702 B2

TITLE: Compositions for use in rehydration and nutrition during athletic exercise

and methods of making same

DATE-ISSUED: July 22, 2003

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Kampinga; Jaap Groningen NL Colaco; Camilo Trumpington GB

US-CL-CURRENT: 514/53; 424/439, 426/648, 426/658, 426/66, 426/67, 426/810, 514/23, 514/25, 514/54, 514/58

Folk Title Challon Front Remon Classification Date Reference Sequence: Lettachment:

PMM | Draw Dezv | Image

L5: Entry 4 of 6708

File: USPT

Jul 22, 2003

US-PAT-NO: 6596701

DOCUMENT-IDENTIFIER: US 6596701 B1

TITLE: S-adenosyl methionine regulation of metabolic pathways and its use in

diagnosis and therapy

DATE-ISSUED: July 22, 2003

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Schwartz; Dennis E. Redmond WA
Vermeulen; Nicolaas M. J. Woodinville WA
O'Day; Christine L. Mountlake Terrace WA

US-CL-CURRENT: 514/46; 435/7.1, 528/338, 528/340

Full Title Citation Front Review Classification Cate Reference Seguences Attachments

Finds | Drain Deck | Image

L5: Entry 5 of 6708

File: USPT

Jul 22, 2003

US-PAT-NO: 6596527

DOCUMENT-IDENTIFIER: US 6596527 B1

TITLE: Composition and methods relating to SENP 1- a sentrin-specific protease

DATE-ISSUED: July 22, 2003

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Yeh; Edward T. H. Houston TX Gong; Limin Pearland TX

US-CL-CURRENT: 435/226; 435/252.3, 435/320.1, 435/69.1, 536/23.2

Full Title Citation Front Remem Classification Date Reference Sequence: Attachment:

Panti | Committees | Innere

6. Document ID: US 6596512 B1

L5: Entry 6 of 6708

File: USPT

Jul 22, 2003

US-PAT-NO: 6596512

DOCUMENT-IDENTIFIER: US 6596512 B1

TITLE: Nucleic acid encoding Nematode dopamine transporter and the protein encoded

thereby

DATE-ISSUED: July 22, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE COUNTRY

Blakely; Randy D.

Brentwood

TN

Eppler; Cecil M. Langhorne PA

US-CL-CURRENT: 435/69.1; 435/252.3, 435/254.11, 435/254.2, 435/320.1, 435/325, $\frac{435/367}{367}, \; \frac{435/471}{435/6}, \; \frac{435/7.1}{435/7.1}, \; \frac{435/7.2}{435/7.21}, \; \frac{435/71.1}{435/71.1}, \; \frac{435/71.2}{435/71.2}, \; \frac{530/350}{530/350}, \; \frac{435/367}{350/350}, \; \frac{435/367}, \; \frac{435/367}{350/350}, \; \frac{435/367}{350/350}, \; \frac{435/3$ 536/23.5

Full Title Citation Front Remain Claramiation Date Reference Sequence: Attachment:

Find() | Draw Deco () Image

7. Document ID: US 6596499 B2

L5: Entry 7 of 6708

File: USPT

Jul 22, 2003

US-PAT-NO: 6596499

DOCUMENT-IDENTIFIER: US 6596499 B2

TITLE: Membrane molecule indicator compositions and methods

DATE-ISSUED: July 22, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Jalink; Kees

Heemstede

NL

US-CL-CURRENT: $\frac{435}{7.1}$; $\frac{435}{252.3}$, $\frac{435}{320.1}$, $\frac{435}{325}$, $\frac{435}{7.8}$, $\frac{435}{7.9}$, $\frac{436}{172}$, 436/86, 536/23.5

Full | Title | Citation | Front | Remain | Classification | Date | Reference | Sequences | Attachments

Find Francisco Invage

■ 8. Document ID: US 6596486 B2

L5: Entry 8 of 6708

File: USPT

Jul 22, 2003

US-PAT-NO: 6596486

DOCUMENT-IDENTIFIER: US 6596486 B2

TITLE: Methods and compositions pertaining to PD-Loops

DATE-ISSUED: July 22, 2003

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Frank-Kamenetskii; Maxim D. Brookline MA
Bukanov; Nikolay O. Framingham MA
Demidov; Vadim V. Boston MA
Kuhn; Heiko Boston MA
Broude; Natalia E. Natick MA

US-CL-CURRENT: 435/6; 536/26.1

Full (little | Citation | Front | Review | Statemation | trate | Reterence | Sequence | Attachments | Field | Graw Cest | Image

☐ 9. Document ID: US 6596485 B2

L5: Entry 9 of 6708

File: USPT Jul 22, 2003

US-PAT-NO: 6596485

DOCUMENT-IDENTIFIER: US 6596485 B2

TITLE: Green fluorescent protein fusions with random peptides

DATE-ISSUED: July 22, 2003

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Anderson; David San Bruno CA Bogenberger; Jakob Maria Menlo Park CA

US-CL-CURRENT: 435/6; 424/278.1, 435/69.1, 536/23.4

Full Title | Citation | Front | Review | Classification | Ciate | Reference | Sequences | Attachments | Finit | Craw Desc | Image |

☐ 10. Document ID: US 6596336 B1

L5: Entry 10 of 6708

File: USPT Jul 22, 2003

US-PAT-NO: 6596336

DOCUMENT-IDENTIFIER: US 6596336 B1

TITLE: Microbiologically stable sauce emulsion

DATE-ISSUED: July 22, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Gimelli; Kenneth Waldwick NJ
Bauer; Roland West Milford NJ
Caravetta; Dominic Congers NY
Kochakji; Daniel J. West Milford NJ
Luther; Stephanie Monroe NY

US-CL-CURRENT: 426/589; 426/601, 426/602

of Index Constract Front Be	ogno i Claremeation Date Reference i Sequen	es Attachments - Foot (raw (e.c. h	a a .10
	Generate Collection	Print	
	Terms	Documents	
L3 and stability		6	708

Display Format: CIT | Change Format

Previous Page Next Page

Welcome to STN International! Enter x:x

```
LOGINID:ssspta1653hxp
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2
         * * * * *
                      Welcome to STN International
NEWS
                  Web Page URLs for STN Seminar Schedule - N. America
NEWS
                  "Ask CAS" for self-help around the clock
NEWS
         Feb 24
                  PCTGEN now available on STN
      3
NEWS 4
         Feb 24
                 TEMA now available on STN
NEWS 5 Feb 26
                 NTIS now allows simultaneous left and right truncation
NEWS 6 Feb 26
                 PCTFULL now contains images
NEWS
     7 Mar 04
                 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 8 Mar 24
                 PATDPAFULL now available on STN
NEWS 9
                 Additional information for trade-named substances without
         Mar 24
                  structures available in REGISTRY
NEWS 10
         Apr 11
                 Display formats in DGENE enhanced
NEWS 11
         Apr 14
                 MEDLINE Reload
         Apr 17
                 Polymer searching in REGISTRY enhanced
NEWS 12
         Jun 13
                  Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS 13
NEWS 14
                 New current-awareness alert (SDI) frequency in
         Apr 21
                 WPIDS/WPINDEX/WPIX
NEWS 15
         Apr 28
                 RDISCLOSURE now available on STN
NEWS 16
         May 05
                 Pharmacokinetic information and systematic chemical names
                 added to PHAR
                 MEDLINE file segment of TOXCENTER reloaded
NEWS 17
         May 15
NEWS 18
         May 15
                 Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 19
         May 19
                 Simultaneous left and right truncation added to WSCA
NEWS 20
         May 19
                 RAPRA enhanced with new search field, simultaneous left and
                 right truncation
                 Simultaneous left and right truncation added to CBNB
NEWS 21
         Jun 06
NEWS 22
                 PASCAL enhanced with additional data
         Jun 06
                 2003 edition of the FSTA Thesaurus is now available
NEWS 23
         Jun 20
                 HSDB has been reloaded
NEWS 24 Jun 25
NEWS 25 Jul 16 Data from 1960-1976 added to RDISCLOSURE
NEWS 26 Jul 21
                 Identification of STN records implemented
NEWS 27
         Jul 21
                 Polymer class term count added to REGISTRY
NEWS 28 Jul 22
                 INPADOC: Basic index (/BI) enhanced; Simultaneous Left and
                 Right Truncation available
NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
              MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
              AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS
              STN Operating Hours Plus Help Desk Availability
NEWS INTER
              General Internet Information
NEWS LOGIN
              Welcome Banner and News Items
NEWS PHONE
              Direct Dial and Telecommunication Network Access to STN
NEWS WWW
              CAS World Wide Web Site (general information)
```

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific

research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 17:28:02 ON 24 JUL 2003

=> file medline, uspatful, dgene, embase, scisearch, fsta, jicst, wpids, biosis, hcaplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 17:28:27 ON 24 JUL 2003

FILE 'USPATFULL' ENTERED AT 17:28:27 ON 24 JUL 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'DGENE' ENTERED AT 17:28:27 ON 24 JUL 2003 COPYRIGHT (C) 2003 DERWENT INFORMATION LTD

FILE 'EMBASE' ENTERED AT 17:28:27 ON 24 JUL 2003 COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved.

FILE 'SCISEARCH' ENTERED AT 17:28:27 ON 24 JUL 2003 COPYRIGHT 2003 THOMSON ISI

FILE 'FSTA' ENTERED AT 17:28:27 ON 24 JUL 2003 COPYRIGHT (C) 2003 International Food Information Service

FILE 'JICST-EPLUS' ENTERED AT 17:28:27 ON 24 JUL 2003 COPYRIGHT (C) 2003 Japan Science and Technology Corporation (JST)

FILE 'WPIDS' ENTERED AT 17:28:27 ON 24 JUL 2003 COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'BIOSIS' ENTERED AT 17:28:27 ON 24 JUL 2003 COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'HCAPLUS' ENTERED AT 17:28:27 ON 24 JUL 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s albumin fusion protein
L1 2651 ALBUMIN FUSION PROTEIN

=> d l2 ti abs ibib tot

L2 ANSWER 1 OF 1 USPATFULL on STN

TI Albumin fusion proteins

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion

proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:181414 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES

Haseltine, William A., Washington, DC, UNITED STATES

NUMBER DATE

PRIORITY INFORMATION: US 2000-256931P 20001221 (60)

US 2000-199384P 20000425 (60) US 2000-229358P 20000412 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 20 Drawing Page(s)

LINE COUNT: 15235

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

AB

(FILE 'HOME' ENTERED AT 17:28:02 ON 24 JUL 2003)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, SCISEARCH, FSTA, JICST-EPLUS, WPIDS, BIOSIS, HCAPLUS' ENTERED AT 17:28:27 ON 24 JUL 2003

L1 2651 S ALBUMIN FUSION PROTEIN

L2 1 S ALBUMIN FUSION PROTEIN () INCREASED SHELF-LIFE

=> s l1 and extended shelf-life

L3 188 L1 AND EXTENDED SHELF-LIFE

=> s l1 and increase half-life

L4 1 L1 AND INCREASE HALF-LIFE

=> d l4 ti abs ibib tot

L4 ANSWER 1 OF 1 USPATFULL on STN

TI Tumor necrosis factor receptors 6alpha & 6beta

The present invention relates to novel Tumor Necrosis Factor Receptor proteins. In particular, isolated nucleic acid molecules are provided encoding the human TNFR-6.alpha. & -6.beta. proteins. TNFR-6.alpha. & -6.beta. polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of TNFR-6.alpha. & -6.beta. activity. Also provided are diagnostic methods for detecting immune system-related disorders and therapeutic methods for treating immune system-related disorders.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:272468 USPATFULL

TITLE: Tumor necrosis factor receptors 6alpha & 6beta
INVENTOR(S): Gentz, Reiner L., Rockville, MD, UNITED STATES
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES

Yu, Guo-Liang, Berkeley, CA, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES Ni, Jian, Germantown, MD, UNITED STATES

Feng, Ping, Gaithersburg, MD, UNITED STATES Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES, 20850 (U.S. corporation)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-6352, filed on

13 Jan 1998, PENDING Continuation-in-part of Ser. No.

US 2000-518931, filed on 3 Mar 2000, PENDING

Continuation-in-part of Ser. No. US 1998-6352, filed on

13 Jan 1998, PENDING

NUMBER DATE -----PRIORITY INFORMATION: US 2001-303224P 20010706 (60) US 2000-252131P 20001121 (60) US 2000-227598P 20000825 (60) US 1999-168235P 19991201 (60) US 1999-146371P 19990802 (60) US 1999-131964P 19990430 (60) US 1999-131270P 19990427 (60) US 1999-124092P 19990312 (60) US 1999-121774P 19990304 (60) US 1997-35496P 19970114 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 48 EXEMPLARY CLAIM: 1

PATENT ASSIGNEE(S):

NUMBER OF DRAWINGS: 23 Drawing Page(s)

LINE COUNT: 12989

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> dhis

DHIS IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> d his

(FILE 'HOME' ENTERED AT 17:28:02 ON 24 JUL 2003)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, SCISEARCH, FSTA, JICST-EPLUS, WPIDS, BIOSIS, HCAPLUS' ENTERED AT 17:28:27 ON 24 JUL 2003

L1 2651 S ALBUMIN FUSION PROTEIN

L2 1 S ALBUMIN FUSION PROTEIN () INCREASED SHELF-LIFE

L3 188 S L1 AND EXTENDED SHELF-LIFE L4 1 S L1 AND INCREASE HALF-LIFE

=> s 13 and increase albumin activity

L5 0 L3 AND INCREASE ALBUMIN ACTIVITY

=> s 13 and non-glycosylation

L6 0 L3 AND NON-GLYCOSYLATION

=> s l3 and yeast cell

L7 1 L3 AND YEAST CELL

=> d 17 ti abs ibib tot

L7 ANSWER 1 OF 1 USPATFULL on STN

TI Albumin fusion proteins

The present invention encompasses albumin fusion proteins. Nucleic acid AB molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:181414 USPATFULL

TITLE:

Albumin fusion proteins

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES Haseltine, William A., Washington, DC, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003125247	A1	20030703	
APPLICATION INFO.:	US 2001-833041	A1	20010412	(9)

NUMBER DATE ______ PRIORITY INFORMATION: 20001221 (60) US 2000-256931P 20000425 (60) US 2000-199384P US 2000-229358P 20000412 (60)

DOCUMENT TYPE: Utility FILE SEGMENT:

APPLICATION LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 20 Drawing Page(s)

LINE COUNT: 15235

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 17:28:02 ON 24 JUL 2003)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, SCISEARCH, FSTA, JICST-EPLUS, WPIDS, BIOSIS, HCAPLUS' ENTERED AT 17:28:27 ON 24 JUL 2003

1.1 2651 S ALBUMIN FUSION PROTEIN

L2 1 S ALBUMIN FUSION PROTEIN () INCREASED SHELF-LIFE

 L_3 188 S L1 AND EXTENDED SHELF-LIFE L4 1 S L1 AND INCREASE HALF-LIFE

L5 0 S L3 AND INCREASE ALBUMIN ACTIVITY

L6 0 S L3 AND NON-GLYCOSYLATION

L7 1 S L3 AND YEAST CELL

=> s 13 and protease deficient

1,8 2 L3 AND PROTEASE DEFICIENT

=> d 18 ti abs ibib tot

L8ANSWER 1 OF 2 USPATFULL on STN

ΤI Albumin fusion proteins The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:181414 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES

Haseltine, William A., Washington, DC, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003125247	A1	20030703	
APPLICATION INFO.:	US 2001-833041	A1	20010412	(9)

		NUMBER	DATE	
PRIORITY	INFORMATION:	US 2000-256931P	20001221	(60)
		US 2000-199384P	20000425	(60)
		US 2000-229358P	20000412	(60)
DO GLEVENIE	TUDE:	****		

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 20 Drawing Page(s)

LINE COUNT: 15235

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

- L8 ANSWER 2 OF 2 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN
- TI New albumin fusion proteins with extended shelf life, useful for treating leukemia, warts, hepatitis, multiple sclerosis and AIDS, comprises therapeutic protein fused to albumin.
- AN 2002-179329 [23] WPIDS
- CR 2001-602931 [68]
- AB WO 200179271 A UPAB: 20030211

NOVELTY - An albumin fusion protein (I)

comprising:

- (a) a therapeutic protein (X) and albumin (A) containing a fully defined sequence (S1) of 585 amino acids as given in the specification;
- (b) X and a fragment or variants of S1, where the fragment or variants has albumin activity; or
- (c) a fragment or variant of X and A, where the fragment or variant has a biological activity of X, is new.

 ${\tt DETAILED}$ <code>DESCRIPTION</code> - <code>INDEPENDENT</code> <code>CLAIMS</code> are also included for the following:

- (1) an **albumin fusion protein** (II) comprising a peptide inserted into A comprising amino acids 54-61, 76-89, 92-100, 170-176, 247-252, 266-277, 280-288, 362-368, 439-447, 462-475, 478-486 or 560-566 of S1;
- (2) an albumin fusion protein (III) comprising a single chain antibody or its portion and A or its fragment or variant;
- (3) a composition comprising any of (I)-(III) and a pharmaceutically active carrier;
 - (4) a kit comprising the composition;

- (5) treating a disease or disorder that is modulated by X in a patient comprising administering any of (I)-(III);
- (6) extending the shelf life of X comprising fusing X or its fragment or variant to A or its fragment or variant, sufficient to extend the shelf-life of X compared to the shelf life of X in an unfused state;
- (7) a nucleic acid molecule (IV) comprising a polynucleotide sequence encoding any of (I)-(III);
 - (8) a vector comprising (IV); and
 - (9) a host cell comprising (IV).

ACTIVITY - Cytostatic; dermatological; virucide; anti-HIV; neuroprotective; hepatotropic; antiinflammatory. Tests are described but no results are given in the source material.

MECHANISM OF ACTION - Gene therapy.

USE - The fusion protein is useful for the treatment of hairy cell leukemia, Kaposi's sarcoma, genital warts, anal warts, chronic hepatitis B, chronic non-A, non-B hepatitis, hepatitis C/D, chronic myelogenous leukemia, renal cell carcinoma, bladder carcinoma, ovarian carcinoma, cervical carcinoma, skin cancer, recurrent respirator papillomatosis, non-Hodgkin's lymphoma, cutaneous T-cell lymphoma, melanoma, multiple myeloma, acquired immunodeficiency syndrome (AIDS), multiple sclerosis and glioblastoma. The fusion of albumin extends the shelf life and the in vivo and in vitro biological activity of the therapeutic protein (all claimed).

ADVANTAGE - Therapeutic proteins can be stabilized to extend shelf life and/or retain the protein's activity for extended periods of time in solution, in vivo or in vitro by genetically or chemically fusing the protein to albumin or its fragment or variant. In addition the use of albumin fusion proteins reduces the need to formulate protein solutions with large excesses of carrier proteins to prevent loss of therapeutic protein due to factors such as binding to the container. The extension of shelf life was tested by measuring biological activity (Nb2 cell proliferation) of human albumin-human growth hormone (HA-hGH) fusion protein remaining after incubation in cell culture media for up to 3 weeks at 37 deg. C. At week 3 there was still approx. 95% cell proliferation compared to no activity of unfused hGH (no observed activity by week 2).

ACCESSION NUMBER: 2002-179329 [23] WPIDS

CROSS REFERENCE: 2001-602931 [68]

DOC. NO. CPI: C2002-055553

TITLE: New albumin fusion proteins with extended

shelf life, useful for treating

leukemia, warts, hepatitis, multiple sclerosis and AIDS,

comprises therapeutic protein fused to albumin.

DERWENT CLASS: B04 D16

INVENTOR(S): BALLANCE, D J; PRIOR, C P; SADEGHI, H; SLEEP, D; TURNER,

АJ

PATENT ASSIGNEE(S): (DELZ) DELTA BIOTECHNOLOGY LTD; (PRIN-N) PRINCIPIA PHARM

CORP

COUNTRY COUNT: 96

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 2001079271 A1 20011025 (200223) * EN 294

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

AU 2001061024 A 20011030 (200225)

EP 1278767 A1 20030129 (200310) EN

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

APPLICATION DETAILS:

PATENT NO KI	ND	API	PLICATION	DATE
WO 2001079271			2001-US12009	20010412
AU 2001061024	A	ΑU	2001-61024	20010412
EP 1278767	A1	ΕP	2001-934875	20010412
		WO	2001-US12009	20010412

FILING DETAILS:

PATENT NO	KIND		PAT	CENT NO
AU 200106102	4 A Ba	ased on	WO	200179271
EP 1278767	Al Ba	ased on	WO	200179271

PRIORITY APPLN. INFO: US 2000-256931P 20001221; US 2000-229358P 20000412; US 2000-199384P 20000425

=> d his

(FILE 'HOME' ENTERED AT 17:28:02 ON 24 JUL 2003)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, SCISEARCH, FSTA, JICST-EPLUS, WPIDS, BIOSIS, HCAPLUS' ENTERED AT 17:28:27 ON 24 JUL 2003

```
L1 2651 S ALBUMIN FUSION PROTEIN
```

L2 1 S ALBUMIN FUSION PROTEIN () INCREASED SHELF-LIFE

L3 188 S L1 AND EXTENDED SHELF-LIFE

L4 1 S L1 AND INCREASE HALF-LIFE

L5 0 S L3 AND INCREASE ALBUMIN ACTIVITY

L6 0 S L3 AND NON-GLYCOSYLATION

L7 1 S L3 AND YEAST CELL

L8 2 S L3 AND PROTEASE DEFICIENT

=> d his

L2

L4

L6

(FILE 'HOME' ENTERED AT 17:28:02 ON 24 JUL 2003)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, SCISEARCH, FSTA, JICST-EPLUS, WPIDS, BIOSIS, HCAPLUS' ENTERED AT 17:28:27 ON 24 JUL 2003

L1 2651 S ALBUMIN FUSION PROTEIN

1 S ALBUMIN FUSION PROTEIN () INCREASED SHELF-LIFE

L3 188 S L1 AND EXTENDED SHELF-LIFE

1 S L1 AND INCREASE HALF-LIFE

L5 0 S L3 AND INCREASE ALBUMIN ACTIVITY

0 S L3 AND NON-GLYCOSYLATION

L7 1 S L3 AND YEAST CELL

L8 2 S L3 AND PROTEASE DEFICIENT

=> s 13 and kit

L9 2 L3 AND KIT

=> d 19 ti abs ibib tot

- L9 ANSWER 1 OF 2 USPATFULL on STN
- TI Albumin fusion proteins
- AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising

albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:181414 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES

Haseltine, William A., Washington, DC, UNITED STATES

NUMBER DATE

PRIORITY INFORMATION: US 2000-256931P 20001221 (60) US 2000-199384P 20000425 (60)

US 2000-229358P 20000412 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 20 Drawing Page(s)

LINE COUNT: 15235

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

- L9 ANSWER 2 OF 2 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN
- TI New albumin fusion proteins with extended shelf

life, useful for treating leukemia, warts, hepatitis, multiple sclerosis and AIDS, comprises therapeutic protein fused to albumin.

- AN 2002-179329 [23] WPIDS
- CR 2001-602931 [68]
- AB WO 200179271 A UPAB: 20030211

NOVELTY - An albumin fusion protein (I)

comprising:

- (a) a therapeutic protein (X) and albumin (A) containing a fully defined sequence (S1) of 585 amino acids as given in the specification;
- (b) X and a fragment or variants of S1, where the fragment or variants has albumin activity; or
- (c) a fragment or variant of X and A, where the fragment or variant has a biological activity of X, is new.

 ${\tt DETAILED}$ <code>DESCRIPTION</code> - <code>INDEPENDENT</code> <code>CLAIMS</code> are also included for the following:

- (1) an **albumin fusion protein** (II) comprising a peptide inserted into A comprising amino acids 54-61, 76-89, 92-100, 170-176, 247-252, 266-277, 280-288, 362-368, 439-447, 462-475, 478-486 or 560-566 of S1;
- (2) an **albumin fusion protein** (III) comprising a single chain antibody or its portion and A or its fragment or variant;
- (3) a composition comprising any of (I)-(III) and a pharmaceutically active carrier;
 - (4) a kit comprising the composition;
- (5) treating a disease or disorder that is modulated by X in a patient comprising administering any of (I)-(III);
- (6) extending the shelf life of X comprising fusing X or its fragment or variant to A or its fragment or variant, sufficient to extend the shelf-life of X compared to the shelf life of X in an unfused state;
- (7) a nucleic acid molecule (IV) comprising a polynucleotide sequence encoding any of (I)-(III);

- (8) a vector comprising (IV); and
- (9) a host cell comprising (IV).

ACTIVITY - Cytostatic; dermatological; virucide; anti-HIV; neuroprotective; hepatotropic; antiinflammatory. Tests are described but no results are given in the source material.

MECHANISM OF ACTION - Gene therapy.

USE - The fusion protein is useful for the treatment of hairy cell leukemia, Kaposi's sarcoma, genital warts, anal warts, chronic hepatitis B, chronic non-A, non-B hepatitis, hepatitis C/D, chronic myelogenous leukemia, renal cell carcinoma, bladder carcinoma, ovarian carcinoma, cervical carcinoma, skin cancer, recurrent respirator papillomatosis, non-Hodgkin's lymphoma, cutaneous T-cell lymphoma, melanoma, multiple myeloma, acquired immunodeficiency syndrome (AIDS), multiple sclerosis and glioblastoma. The fusion of albumin extends the shelf life and the in vivo and in vitro biological activity of the therapeutic protein (all claimed).

ADVANTAGE - Therapeutic proteins can be stabilized to extend shelf life and/or retain the protein's activity for extended periods of time in solution, in vivo or in vitro by genetically or chemically fusing the protein to albumin or its fragment or variant. In addition the use of albumin fusion proteins reduces the need to formulate protein solutions with large excesses of carrier proteins to prevent loss of therapeutic protein due to factors such as binding to the container. The extension of shelf life was tested by measuring biological activity (Nb2 cell proliferation) of human albumin-human growth hormone (HA-hGH) fusion protein remaining after incubation in cell culture media for up to 3 weeks at 37 deg. C. At week 3 there was still approx. 95% cell proliferation compared to no activity of unfused hGH (no observed activity by week 2). Dwq.0/18

ACCESSION NUMBER:

2002-179329 [23] WPIDS

CROSS REFERENCE:

2001-602931 [68]

DOC. NO. CPI:

C2002-05553

TITLE:

New albumin fusion proteins with extended

shelf life, useful for treating

leukemia, warts, hepatitis, multiple sclerosis and AIDS,

comprises therapeutic protein fused to albumin.

DERWENT CLASS: B04 D16

INVENTOR (S):

BALLANCE, D J; PRIOR, C P; SADEGHI, H; SLEEP, D; TURNER,

Δ .Т

PATENT ASSIGNEE(S):

(DELZ) DELTA BIOTECHNOLOGY LTD; (PRIN-N) PRINCIPIA PHARM

CORP

COUNTRY COUNT:

96

PATENT INFORMATION:

PATENT NO	KIND DAT	re week	LA PG

WO 2001079271 Al 20011025 (200223)* EN 294

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ

NL OA PT SD SE SL SZ TR TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD

SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

AU 2001061024 A 20011030 (200225)

EP 1278767 A1 20030129 (200310) EN

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 200107927	1 A1	WO 2001-US12009	20010412
AU 200106102	4 A	AU 2001-61024	20010412
EP 1278767	A1	EP 2001-934875	20010412

WO 2001-US12009 20010412

FILING DETAILS:

	KIND	PA	TENT NO
AU 200106102	4 A Based	on WO	200179271
EP 1278767	Al Based	on WO	200179271

PRIORITY APPLN. INFO: US 2000-256931P 20001221; US 2000-229358P 20000412; US 2000-199384P 20000425

```
=> e rosen, c/au
                    ROSEN ZVI M/AU
E1
             7
             7
                   ROSEN ZVI MICHAL/AU
E2
E3
              0
               --> ROSEN, C/AU
                    ROSENA BRUCE R/AU
E4
             1
                    ROSENABUM S/AU
E5
             1
                    ROSENACKER A F/AU
E6
             1
                    ROSENACKER ARTHUR F/AU
E7
             1
E8
             4
                    ROSENADA CEPERO R/AU
                   ROSENAGER L/AU
E9
             1
                   ROSENAK B/AU
E10
             2
                    ROSENAK B D/AU
E11
            71
E12
             9
                    ROSENAK BERNARD D/AU
=> e haseltine, W/au
                   HASELTINE WILLIAM G/AU
E1
             1
                   HASELTINE WILLIAM GAGE/AU
E2
               --> HASELTINE, W/AU
E3
                   HASELTLINE F P/AU
E4
             1
E5
             8
                   HASELTON A/AU
             5
                   HASELTON AARON/AU
E6
                   HASELTON B J/AU
E7
             1
                   HASELTON C/AU
E8
                   HASELTON C B/AU
E9
             1
E10
             9
                   HASELTON C J/AU
E11
            37
                   HASELTON C L/AU
E12
             5
                   HASELTON CAROLE J/AU
=> s e1
L10
             1 "HASELTINE WILLIAM G"/AU
=> s e2
             1 "HASELTINE WILLIAM GAGE"/AU
L11
=> d l10 ti abs ibib tot
     ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS on STN
L10
     Physicochemical properties of mono- and diisocyanates
ΤT
     Liq. d., viscosity, sp. heat, and vapor pressure data are reported for a
AB
     new class of mono- and diisocyanates.
ACCESSION NUMBER:
                          1986:540063 HCAPLUS
DOCUMENT NUMBER:
                          105:140063
                          Physicochemical properties of mono- and diisocyanates
TITLE:
                          Achorn, Peter J.; Haseltine, William G.;
AUTHOR(S):
                          Miller, J. K.
                          Chem. Res. Div., Am. Cyanamid Co., Stamford, CT,
CORPORATE SOURCE:
                          06904-0060, USA
SOURCE:
                          Journal of Chemical and Engineering Data (1986),
                          31(4), 385-7
                          CODEN: JCEAAX; ISSN: 0021-9568
DOCUMENT TYPE:
                          Journal
LANGUAGE:
                          English
=> d l11 ti abs ibib tot
     ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS on STN
L11
     High pressure carbon-13 nuclear magnetic resonance relaxation study of
TΤ
     2-n-butyl-3-n-hexylnaphthalene
AB
     Unavailable
ACCESSION NUMBER:
                          1981:559261 HCAPLUS
```

95:159261

DOCUMENT NUMBER:

TITLE:

High pressure carbon-13 nuclear magnetic resonance relaxation study of 2-n-butyl-3-n-hexylnaphthalene Haseltine, William Gage

AUTHOR(S):

LANGUAGE:

CORPORATE SOURCE:

DOCUMENT TYPE:

SOURCE:

Pennsylvania State Univ., University Park, PA, USA (1981) 195 pp. Avail.: Univ. Microfilms Int., Order

No. 8112809

From: Diss. Abstr. Int. B 1981, 42(1), 230

Dissertation

English

=>